

What is claimed is:

1. A sway brace clamp being for clamping pipe of specified outside diameter with mill tolerance, comprising

two elongate bars, each elongate bar including an arcuate section, a first straight section on one end of the arcuate section and a second straight section on the other end of the arcuate section, the first and second straight sections defining attachment surfaces on one side lying in a common attachment plane, each straight section having a through hole;

fasteners extendable through the through holes to retain the two elongate bars together with the attachment surfaces of the first straight sections against the attachment surfaces of the second straight sections, respectively, each of the arcuate sections of the two elongate bars defining a center of curvature which lies substantially in the common attachment plane of the respective bar when clamped about the pipe with the attachment surfaces of the first straight sections against the attachment surfaces of the second straight sections, respectively.

2. The sway brace clamp of claim 1, the maximum distance is .005" less than the nominal outside radius minus the negative radial mill tolerance of the pipe of specified outside diameter.

3. The sway brace clamp of claim 1, the fasteners each being a bolt with a nut threadable thereon.

4. The sway brace clamp of claim 1 further comprising short radiused sections attaching the ends of the arcuate sections to the straight sections.

5. A sway brace clamp being for clamping pipe of specified outside diameter with mill tolerance, comprising

two elongate bars, each elongate bar including an arcuate section, a first straight section on one end of the arcuate section and a second straight section on the other end of the arcuate section, the first and second straight sections defining attachment surfaces on one side lying in a common attachment plane, each straight section having a through hole;

fasteners extendable through the through holes to retain the two elongate bars together with the attachment surfaces of the first straight sections against the attachment surfaces of the second straight sections, respectively, the maximum distance perpendicular to the attachment plane between the attachment plane and the concave side of the arcuate section for each elongate bar being less than the nominal outside radius minus the negative radial mill tolerance of the pipe of specified outside diameter when the bar is unstressed to provide a designed clamping force imposed on the pipe of specified outside diameter with the attachment surfaces of the two bars positioned against one another about the pipe, respectively.

6. The sway brace clamp of claim 5, each of the arcuate sections of the two elongate bars defining a center of curvature which lies substantially in the common attachment plane of the respective bar when clamped about the pipe with the attachment surfaces of the first straight sections against the attachment surfaces of the second straight sections, respectively.

7. The sway brace clamp of claim 6, each of the centers of curvature lying substantially in the common attachment plane being offset away from the respective

defining arcuate section across the common attachment plane thereof when the bar is unstressed.

8. The sway brace clamp of claim 5, the maximum distance is .005" less than the nominal outside radius minus the negative radial mill tolerance of the pipe of specified outside diameter.

9. The sway brace clamp of claim 5, the fasteners each being a bolt with a nut threadable thereon.

10. The sway brace clamp of claim 5 further comprising short radiused sections attaching the ends of the arcuate sections to the straight sections.

11. A sway brace assembly for supporting pipe of specified outside diameter with mill tolerance, comprising

a rigid link including two attachments displaced from one another;

two elongate bars, each elongate bar including an arcuate section having two ends, a first straight section on one end of the arcuate section and a second straight section on the other end of the arcuate section, the first and second straight sections defining attachment surfaces on one side lying in a common attachment plane, each straight section having a through hole;

fasteners extendable through the through holes to retain the two elongate bars together with the attachment surfaces of the first straight sections against the attachment surfaces of the second straight sections, respectively, the maximum distance perpendicular to the attachment plane between the attachment plane and the concave side of the arcuate section for each elongate bar being less than the nominal

outside radius minus one-half the mill tolerance of the pipe of specified outside diameter
15 when the bar is unstressed to provide a designed clamping force imposed on the pipe of
specified outside diameter with the attachment surfaces of the two bars positioned
against one another about the pipe, one of the two attachments being engageable with
one of the fasteners with the one fastener extending through the through holes of one of
the first straight sections and one of the second straight sections the attachment
20 surfaces of which being against one another.

12. The sway brace assembly of claim 11, each of the arcuate sections of the
two elongate bars defining a center of curvature which lies substantially in the common
attachment plane of the respective bar when clamped about the pipe with the
attachment surfaces of the first straight sections against the attachment surfaces of the
5 second straight sections, respectively.

13. The sway brace assembly of claim 12, each of the centers of curvature
lying substantially in the common attachment plane being offset away from the
respective defining arcuate section across the common attachment plane thereof when
the bar is unstressed.

14. The sway brace assembly of claim 11, the maximum distance is .005" less
than the nominal outside radius minus the negative radial mill tolerance of the pipe of
specified outside diameter. the fasteners each being a bolt with a nut threadable
thereon.

15. The sway brace assembly of claim 11, the fasteners each being a bolt with
a nut threadable thereon.

16. The sway brace clamp of claim 11 further comprising

short radiused sections attaching the ends of the arcuate sections to the straight sections.